Index of key words

Abbe theory, 319, 327
Acetylcholine receptors, 199
Achromats, 281
Adrenergic axons, 61
Alkaline phosphatase, 207
Aluminium cations, 227
Amateur, 267
Apochromats, 281
Autofluorescence, 199
Axonal transport, 61

Biological fluids, 81
Brain, 81
Brain artery, 213
Brain cortex 113
Brain ventricles, 113
Brain volume, 113
α-Bungarotoxin, 199
Burgers vector, 123

CCD cameras, 405
Chromatic aberration, 169
Chromatin, 227
Colloidal gold, 27
Compositional mapping, 183
Confocal imaging, 419
Confocal laser microscopy, 15
Confocal scanning microscopy, 405
Contrast enhancement, 169
Coronary artery, 213
Cryostat sections, 61

Dark-ground illumination, 319
De Broglie wavelength, 327
Differential interference contrast, 281
Diffraction contrast, 361
Digital imaging processing, 15
Digital video microscopy, 199
Disector method, 207
Dislocation, 123
Dissociated dislocation, 123
Dissociation width, 123

Early 19th-century scientific societies in London, 235
Economical aspects, 61
Elastic and inelastic cross-sections, 169
Electron diffraction camera, 327
Electron holography, 327
Electron microscope history, 327
Electron microscopy, 339
Electron-spectroscopic imaging, 169
Embedding, 307
Embryology, 81
Epi-illumination, 281
Evanescent waves, 419

Fashionable, 267
First electron microscopes, 327
Fixation, 307
Fluorescence, 15
Fluorescence microscopy, 61, 199, 227, 319
Fluorescent complexes, 227
Formaldehyde-induced fluorescence, 61
Future prospects, 373

Gain of contrast, 169
Geometric probability, 393

High-resolution microscopes, 327
High-voltage microscopy, 361
History, 373
Holography, 419
Human brain, 113
8-Hydroxyquinoline, 227

Image analysis, 383, 405
Image digitization, 281
Image processing electron microprobe, 183
Image simulation, 123
Immunofluorescence, 61
Inner ear, 81
Interfaces, 339
Interference microscopy, 319

Light microscopy, 307, 405

Manufacture and use of the microscope 1820–70, 235
Materials science, 339, 361
Mechanical philosophy, 267
Method of cumulants, 199
Microanalysis, 183
Micrographia, 267
Microscopical bacteriology, 281
Microscopical journals, 249
Microscopy, 419
Microstructure/property relationships, 339
Microtome, 307
Morphometry, 207
Motor axons, 61
Multi-parameter microscopy, 405
Muscle, 81
Myotubes, 199

Nerve, 81
Neuronal imaging, 27
Neurons, 15

Objective lens design, 281
Optical sections, 15
Ozone exposure, 207

Particle size analysis, 383
Patronage, 249
Peptide standards, 61
Phase contrast, 281
Phase transformations, 339
Photobleaching kinetics, 199
Point-counting, 113

Polarized light microscopy, 213
Preparation methods, 81
Preparative techniques, 307
Present technology, 373
Professional, 267

Quekett Club, 249

Rat 61
Rat lung, 207
Reduced biological variation, 61
Reflecting microscope 319
Replica techniques, 361
Reserpine, 61
Robert Hooke, 267
Royal Microscopical Society and its Charter of 1866, 235
Royal Microscopical Society, 249, 327

Sampling, 393
Sectioning, 307
SEM, 373
Serial sections, 393
Smooth muscle, 213
Social history, 267
Society, 267
STEM, 361
Stereology, 113, 213, 393
STM, 419
Strong beams, 123
Structure imaging, 361
Surface imaging, 373

TEM, 123, 361
Three-dimensional microscopy, 15
Time-resolved microscopy, 405
Transmission of amorphous films, 169
Type II cells, 207

Universal stage, 213
u.v. microscope, 319
u.v. microscopy, 281

Video techniques 281
Visualization, 81

Wavelength spectrometers, 183
Weak-beam method, 123
Weak-beam technique, 361

X-ray microanalysis, 81

Zero-loss imaging, 169

Index of authors

Bennett, J.A., 267
Bööj, S., 61
Bracegirdle, B., 307
Bradbury, S., 281
Bright, D.S., 183
Brock, W.H., 249
Brodin, L., 15

Canham, P.B., 213
Carlson, C., 199
Carlsson, K., 15

Dahlström, A., 61
Del Castillo, P., 227
Dormans, J.A.M.A., 207

Finlay, H.M., 213

Golgi, C., 3
Golgi, C., 9

Hammond, C., 233
Hare, T.M., RP1
Hartley, W.G., 319
Hicks, J.G., 213
Hirsch, P.B., 361
Howard, V., 1
Howie, A., 419

Johansson, O., 1

Khodos, I.I., 123
Kling-Petersen, T., 61
Koppel, D.E., 199

Larsson, P.A., 61
Lipsky, N., 3
Lipsky, N., 9
Llorente, A.R., 227
Lundmark, K., 61

Marinenko, R.B., 183
McMullan, D., 373
Mulvey, T., 327
Myklebust, R.L., 183

Newbury, D.E., 183
Nikolaichick, V.I., 123

Pakkenberg, B., 113
Palmour III, H., RP1
Park, Y.W., 213
Pol, A.N. van den, 27

Ralph, B., 339
Regeur, L., 113
Reimer, L., 169

Ross-Messemer, M., 169
Russ, J.C., RP1

Smilowitz, H., 199
Stockert, J.C., 227

Tanke, H.J., 405
Taylor, C.P.S., 213

Turner, G.L'E., 233, 235

Velzen, D. van, 231

Wallén, P., 15
Weibel, E.R., 393
Whittaker, P., 213
Wróblewski, R., 81